## **CLAIMS**

## What is Claimed is:

A vehicle for enabling attachment of an optic fiber to a multi-integrated
 optic chip in optical communication therewith, and for maintaining alignment of the
 fiber at its end adjacent the chip, comprising:
 a sleeve having a symmetrically-shaped cavity bounded by termini
 which respectively interface with the chip and the fiber; and
 an adhesive disposed within the cavity and symmetrically bonding the
 fiber to the chip.

2. A vehicle according to claim 1 wherein:

said cavity has an axis and is internally bounded by a wall which is substantially centered on the axis and which extends from said chip-interfacing terminus to said fiber-interfacing terminus;

said termini are centered on the axis; and

a line lying within any plane intersecting the axis at right angles thereto and terminating in said cavity wall is bisected into two equal segments.

1 3. A vehicle according to claim 1 wherein said sleeve is configured to fit 2 onto the chip and is disposed to accept the fiber.

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1	4. A vehicle according to claim 3 wherein:
2	said cavity has an axis and is internally bounded by a wall which is
3	substantially centered on the axis and which extends from said chip-fitting terminus
4	to said fiber-accepting terminus;
5	said termini are centered on the axis; and
6	a line lying within any plane intersecting the axis at right angles
7	thereto and terminating in said cavity wall is bisected into two equal segments.
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1	5. A vehicle according to claim 4 wherein said cavity wall slopes from
2	said chip-fitting terminus to said fiber-accepting terminus.
1	6. A vehicle according to claim 4 in which said sleeve so controls said
2	adhesive as to provide and preserve a symmetrical bonding of the fiber with
3	respect to the chip over gravitational and wicking effects.
1	7. A vehicle according to claim 6 in which said cavity wall is shaped as
2	a truncated right circular cone.
1	8. A vehicle according to claim 6 in which said cavity wall is shaped as
2	a truncated pyramid.
1	9. A vehicle according to claim 4 in which said sleeve is temporarily
2	attached to said adhesive and the chip. $igg begin{array}{cccccccccccccccccccccccccccccccccccc$

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	1	10. A vehicle according to claim 4 in which said sleeve is permanently
	2	attached to said adhesive and the thip.
	1	11. A method for attaching an optic fiber to an optic chip and for
	2	maintaining alignment of the fiber at its end adjacent the chip, comprising the steps
	3	of:
	4	positioning a sleeve having a symmetrically shaped cavity on the chip;
	5	placing an adhesive into the sleeve cavity;
	6	inserting the fiber into the cavity;
	7	securing the fiber to the chip; and
	8	curing the adhesive.
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j	1	12. A method according to claim 11 further comprising the step of aligning
իր կոմի կողի հիռու գնու կողի	2	the fiber within the cavity and positioning the fiber end adjacent the chip.
	1	13. A method according to claim 11 further comprising the step of
	2	removing the sleeve from the chip after the adhesive has cured.
	1	14. A method according to claim 11 further comprising the step of leaving
	2	the sleeve securely on the chip after the adhesive has cured.

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1 15. A method according to claim 11 further comprising the step of 2 providing the sleeve cavity with a truncated pyramid configuration.



1 16. A method according to claim 11 further comprising the step of 2 providing the sleeve cavity with a truncated right circular cone configuration.

17. A method for attaching an optic fiber to an optic chip and for 1 maintaining alignment of the fiber at its end adjacent the chip, comprising the steps 2 3 of: 4 utilizing a sleeve having a symmetrically shaped cavity; 5 placing an adhesive into the sleeve cavity; 6 positioning the sleeve onto the chip; 7 inserting the fiber into the cavity; 8 aligning the fiber within the cavity and positioning the fiber end 9 adjacent the chip; securing the fiber to the chip; and 10

1 18. A method according to claim 17 further comprising the step of 2 removing the sleeve from the chip after the adhesive has cured.

curing the adhesive.

1 19. A method according to claim 17 further comprising the step of leaving 2 the sleeve securely on the chip after the adhesive has cured.

- 1 20. A method according to claim 17 further comprising the step of
- 2 providing the sleeve cavity with a trundated pyramid configuration.



- 1 21. A method according to claim 17 further comprising the step of
- 2 providing the sleeve cavity with a truncated right circular cone configuration.